

Article 24

EPO - DG 1

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Claims

1. A vaccine comprising an antigen and a fatty acid or fatty acid peptide carrier compound which are directly or indirectly linked by a thioester or a disulphide bond that is labile and dissociates under certain physiological conditions.

2. A vaccine according to claim 1 in which said antigen dissociates from said carrier compound after the vaccine or preparation has been administered.

3. A vaccine according to claim 1 ~~or 2~~ in which said antigen is a protein, a polypeptide, a synthetic peptide, a carbohydrate, or a hapten.

4. A vaccine according to claim 3 in which the antigen is a synthetic peptide.

5. A vaccine according to ~~any one of claims 1 - 4~~ in which the fatty acid is palmitic acid.

6. A vaccine according to claim 4 ~~or 5~~ in which the synthetic peptide essentially consists of the amino acid sequence /EHWSYGLRPGQHWSYGLRPG.

7. A vaccine according to claim 4 ~~or 5~~ in which the synthetic peptide essentially consists of the amino acid sequence SDGAVQPDGGQPAVRNERATG.

8. A vaccine according to claim 4 ~~or 5~~ in which the synthetic peptide essentially consists of the amino acid sequence RAISSWKQRNRWEWPRD.

9. A vaccine according to ~~any one of claims 1-4~~ in which the antigen is a peptide and the carrier compound is another copy of said peptide coupled to a fatty acid.

10. A vaccine according to claim 9 in which the carrier compound is an N-palmitoylated peptide.

11. A vaccine according to claim 9 ~~or 10~~ in which the peptide essentially consists of the amino acid sequence SDGAVQPDGGQPAVRNERATG.

a 12 A vaccine preparation according to ~~any of claims 1-11~~
a together with ^{pharmaceutically} ~~pharmacautically~~ acceptable compound or
adjuvant.

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5 13 A composition comprising a synthetic peptide linked
with a thioester bond to a fatty acid.

14 A composition according to claim 13 wherein the fatty
acid is palmitic acid.

a 15 A composition according to claim 13 ~~or 14~~ wherein the
peptide is selected from the group consisting of
/EHWSYGLRPGQHWSYGLRPG, SDGAVQPDGGQPAVRNERATG and
RAISSWKQRNRWEWPRD.

16 A composition comprising a synthetic peptide linked
with a disulfide bond to a carrier compound comprising a
fatty acid linked to another copy of said synthetic peptide.

15 17 A composition according to claim 16 wherein the fatty
acid is palmitic acid.

a 18 A composition according to claim 16 ~~or 17~~ wherein the
peptide is selected from the group consisting of
/EHWSYGLRPGQHWSYGLRPG, SDGAVQPDGGQPAVRNERATG and
RAISSWKQRNRWEWPRD.

19 A method for producing an immunogenic preparation
comprising linking a synthetic peptide with a fatty acid or
fatty acid peptide carrier compound via a thioester or
disalphide bond that is labile and dissociates under
25 physiological conditions.

20 A method according to claim 19 wherein the fatty
acid is palmitic acid.

a 21 A method according to claim 19 ~~or 20~~ wherein the
peptide is selected from the group consisting of
/EHWSYGLRPGQHWSYGLRPG SDGAVQPDGGQPAVRNERATG and
RAISSWKQRNRWEWPRD.

22 An immunogenic preparation obtainable by a method
a according to ~~any of claims 19-21.~~

claim 19

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23 A vaccine comprising an immunogenic preparation according to claim 22 together with pharmaceutically acceptable compound or adjuvant.

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AMENDED SHEET
IPEA/EP